

CLAIMS

1. A method of implementing an n -th order IIR filter which comprises the steps of:
providing an IIR filter of order less than n ; and
operating said IIR filter of order less than n on a time-sharing basis a plurality of times such that said plurality of times multiplied by the order of said IIR filter of order less than n is equal to or greater than n .
2. The method of claim 1 wherein said plurality of times multiplied by said order is equal to n .
3. The method of claim 1 further including providing a decoder coupled to said input terminal.
4. The method of claim 2 further including a providing decoder coupled to said input terminal.
5. An implementstion of an n -th order IIR filter which comprises:
an IIR filter of order less than n ; and
means to operate said IIR filter of order less than n on a time-sharing basis a plurality of times such that said plurality of times multiplied by the order of said IIR filter of order less than n is equal to or greater than n .
6. The implementation of claim 5 wherein said plurality of times multiplied by said order is equal to n .

7. The implementation of claim 5 further including a decoder coupled to said input terminal.

8. The implementation of claim 6 further including a decoder coupled to said input terminal.

FOOTNOTES 6204/2660